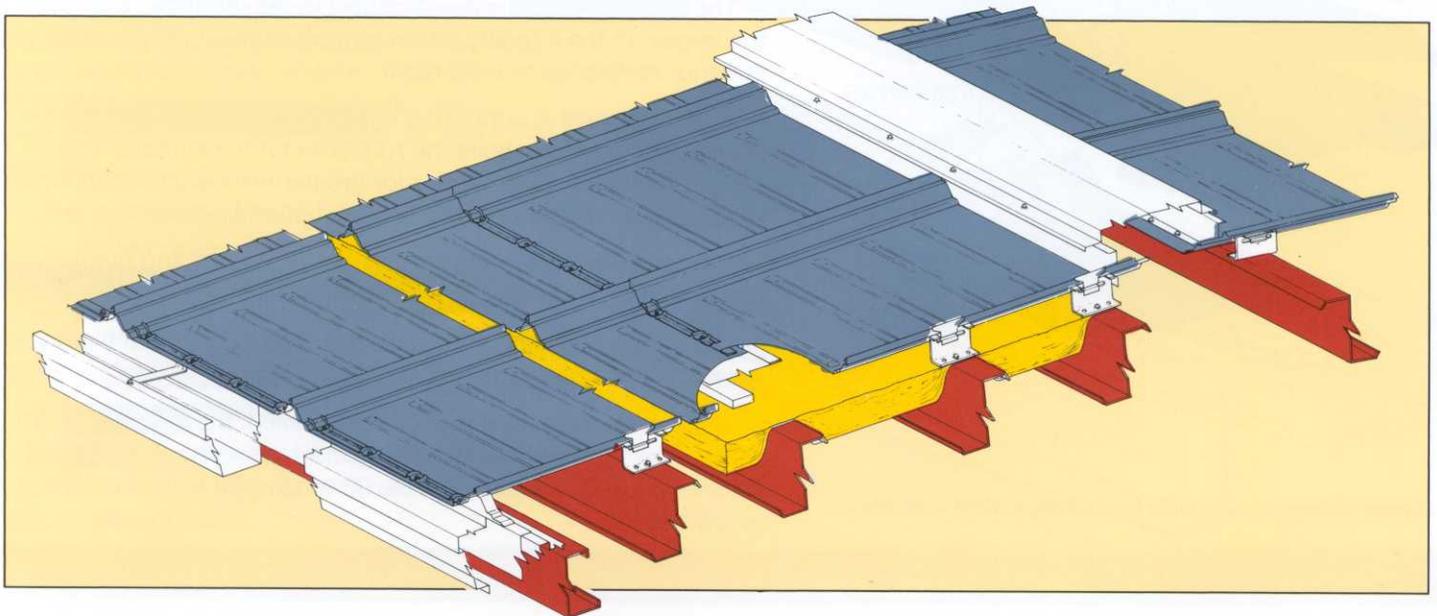




Standing Seam Roof

# Quality Features



**StarShield** is a proven standing seam roof with weathertight construction to provide a maintenance free roof for years. It has passed the test against hurricane force winds with a design that gives excellent roof up-lift resistance and expansion/contraction flexibility not found in conventional roofs.

**StarShield** offers a lasting solution to complicated roofing needs.

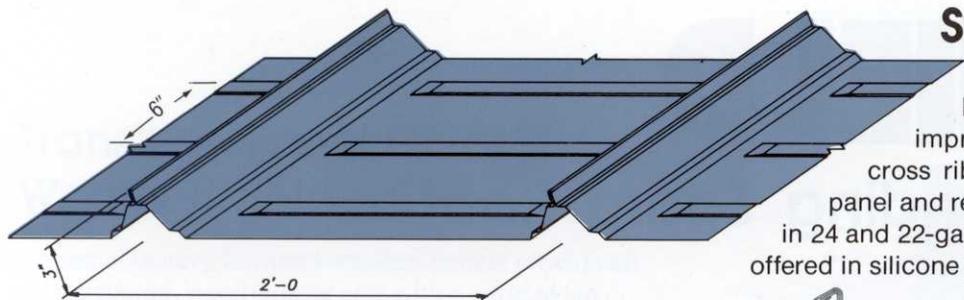
This brochure focuses on **StarShield's** outstanding features showing desirable design benefits that make **StarShield** the best standing seam roof system on the market.



STAR BUILDING SYSTEMS

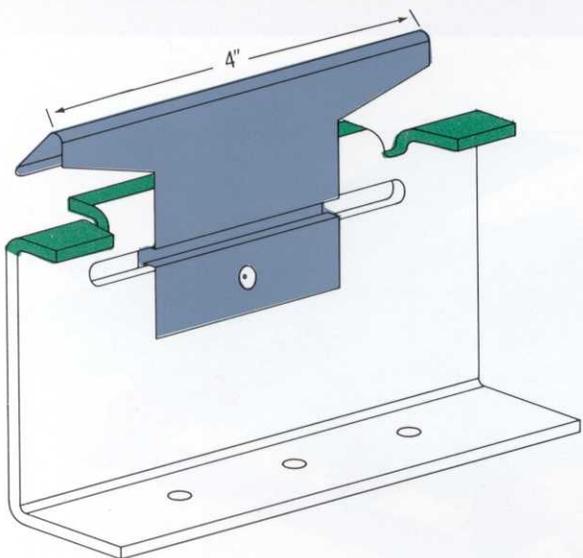
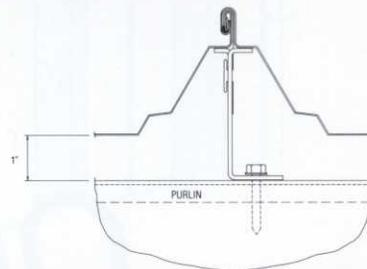
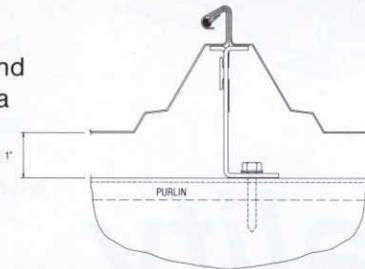


## StarShield Panel Profile



**StarShield's** 24" width and the 3" high box rib provide both strength and improved weathertightness. The embossed cross ribs located 6" on center strengthen the panel and reduce wind flutter. **StarShield** is available in 24 and 22-gauge Aluminum-Zinc Alloy coating and is offered in silicone polyester or Kynar 500 finishes.

The **panel seam** is 95 percent factory formed and includes factory installed sealant. It is closed with a motorized seamer that produces a 360 degree Pittsburgh double lock seam. The panels can be shipped in lengths up to 44'-6" and longer, where permitted.



## StarShield Clip Industry's Strongest

The **StarShield clip** is the strongest in the industry. The 4" tab is the largest in the industry, twice as long as most others, supplying superior resistance to wind uplift.

The panel itself is supported by **horizontal clip shoulders** that suspend it one inch above the roof structural members. This stand-off feature allows space for greater insulation capability and efficiency. \* *It is also available in 1 3/4" stand-off for insulation up to 6".*

The tab is self-centering and allows expansion and contraction movement of 1 1/2 inches.

The shoulder design eliminates the need for thermal blocks except at end splices.

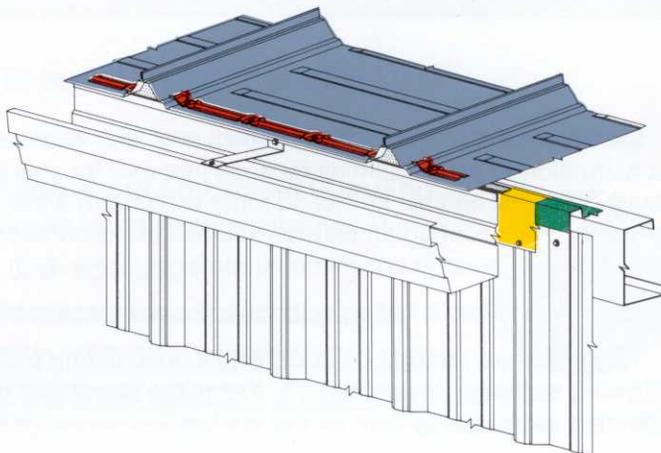
While most major competitor's clips failed, the **StarShield** clip withstood Hurricane Hugo's 150 mph winds without one clip failure. **StarShield** passed the UL 90 wind uplift test without any modifications.

\* A long-slide clip is available for buildings wider than 240'.

## Eave Weather Sealed

The one inch stand-off feature is continued at the eave by using a heavy gauge galvanized **eave strut adapter**. A 26-gauge **eave seal trim** is added over the eave strut adapter, and a 1/4" wide butyl tape sealant is applied on top of that.

The panel is then placed on top of the rib closures and sealant and secured with a **stainless steel, preformed splice plate**. This provides a positive, uniformly compressed weather seal. The key feature of this connection is that it is a structural connection rather than a sheet metal connection, and the weather seal is completely independent of any trim or gutter that can be applied.

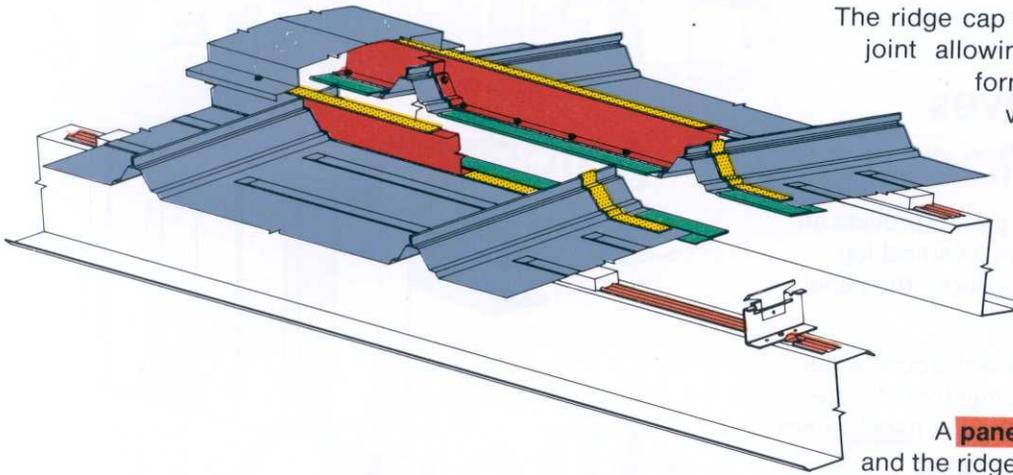


## Ridge Cap Is Flexible Expansion Joint

The ridge cap design provides a flexible expansion joint allowing maximum panel movement. Die formed **24-gauge outside closures** provide both support and weathertightness to the ridge cap. A **1 1/4" tape mastic** ensures proper sealing of all components.

A three inch wide 16-gauge galvanized **splice clip** attached to the underside of the panel ensures a stable structural mechanical seal.

A **panel alignment strip** at panel end splices and the ridge controls 24" panel module coverage.

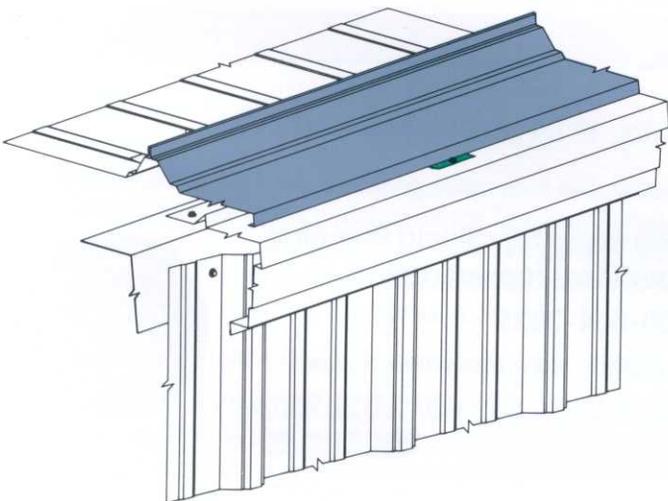
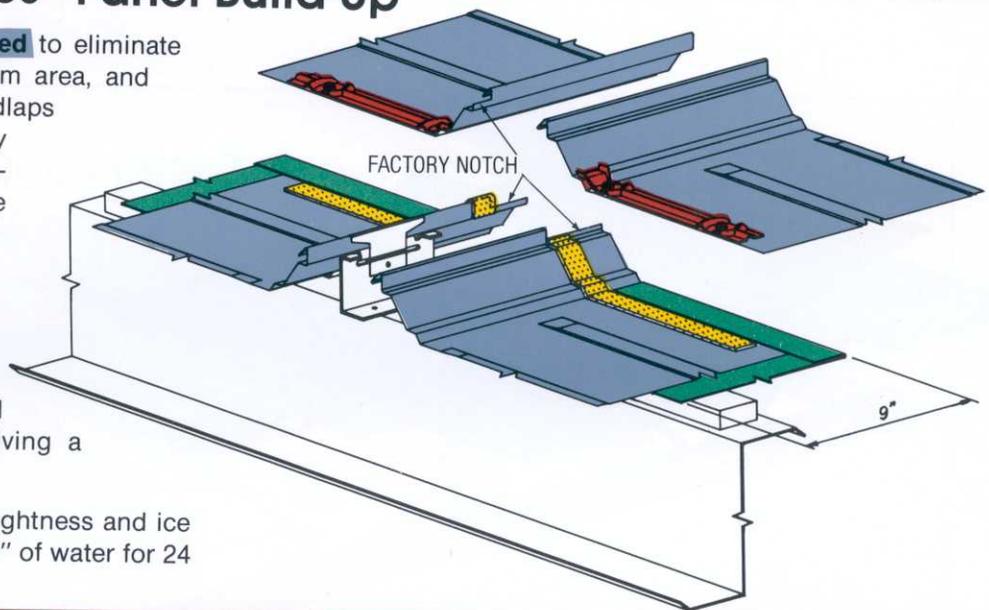


## Four-Way Lap Reduces Panel Build-Up

**StarShield** panels are **factory-notched** to eliminate multiple panel thicknesses in the seam area, and to eliminate the need for staggered endlaps and multiple panel lengths. Factory notching also assures automatic, correct placement of the panels at the splice.

The endlap offers many unique design features, including a **16-gauge galvanized 9" splice clip** that attaches to the underside of panel. It is installed and attached with a **stainless steel splice plate** giving a mechanical connection to the splice.

**StarShield** passed the MBMA watertightness and ice damming test, including withstanding 5" of water for 24 hours without leaks.



## Start/Finish Panel Provides Flexibility

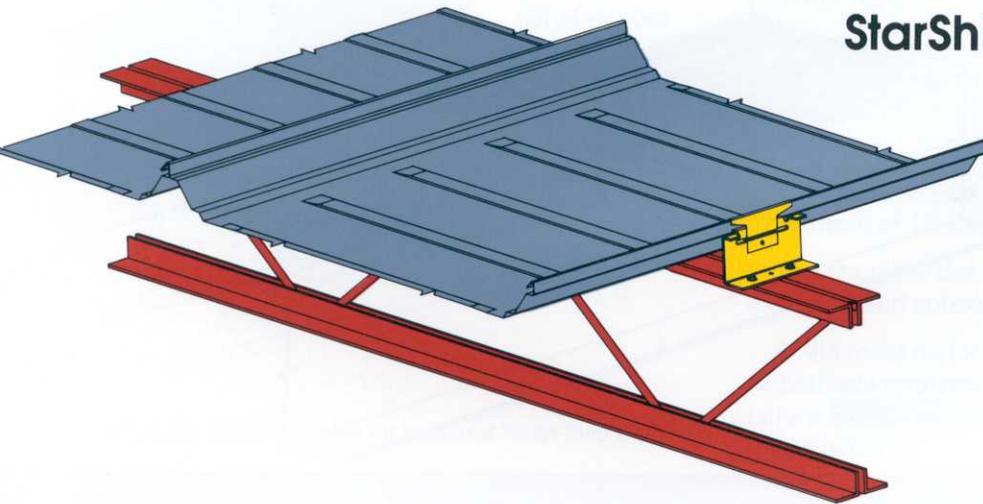
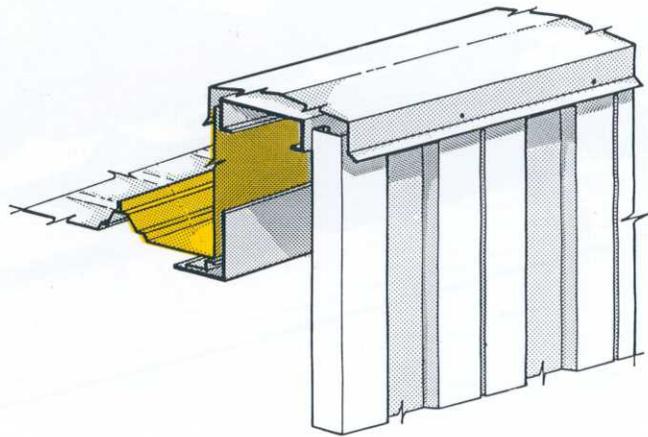
To ensure that the roof floats properly, Star provides an exclusive **start/finish transition panel** at the gable that is seamed at the clip and secured to the gable flash with **gable clips**. This allows the roof and the gable flash to move independently.

The start/finish panel is **custom sized** to each building to allow for construction variances in building length.

## Transition Panel Gives Weathertight Seal

Special **factory formed transition panels** provide an uninterrupted, weathertight seal with a vertical leg extending in lengths up to 14 inches above the panel flash.

Star's panel to flash splice occurs well above water flow and snow slush levels. Most competitors locate this splice on the horizontal surface of the panel where most leaks can occur.



## StarShield Works Well With Bar Joist

**StarShield** works equally well on conventional structurals using **bar joist**. The **panel clip** is specially prepunched for ease in fastening to joist top cords. **StarShield's** superior load carrying capacity works well with typical joist spacing.

StarShield comes with a complete line of accessories, including roof jacks, curbs and Light Transmitting Panels.



### STAR BUILDING SYSTEMS

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**"Over 60,000,000 sq. ft in successful use."**

For more information about StarShield Standing Seam Roof, call your local representative

800-654-3921

Or contact us on the internet: [www.starbuildings.com](http://www.starbuildings.com)

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